ENVIRONMENTAL CHEMISTS

Date of Report: 02/28/02 Date Received: 02/21/02

Project: Metro Self Monitor, PO#M67541

Date Extracted: 02/21/02 Date Analyzed: 02/21/02

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Chromium Copper Nickel Zinc
aboratory ID
3 - 4명은 그런데 그런 1는 기본등 대학생 - 강기는 전환로 조약되는 제 분드 16분 - 조합트 대학생 - 2
<i>1</i> 67541 0.49 0.62 0.51 0.20
02143-01
강화 회를 통해 하는 사람은 문화를 하는 것은 사람들은 사람들은 사람들이 되었다.
Method Blank <0.05 <0.05 <0.05
하는 경상적사업적이 가득하셨다는 그 전에 14세로 그렇게 되어 있는 그것 전략하게 되는 것 같아 가는 사람이 가는 사람이 가득하는 이 14시간 이 사람이 있다면 그렇지 않아 그렇지 않아 되었다. 그

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Date of Report: 02/28/02 Date Received: 02/21/02

Project: Metro Self Monitor, PO#M67541

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 202039-01 (Duplicate)

		Sugar L		Relative	AL HOUSE OF	
	Reporting	Sample	Duplicate	e Percent	Acceptance	
Analyte	Units	Result	Result	Difference	Criteria	
Chromium	mg/L (ppm)	0.16	0.18	12	0-20	
Copper	mg/L (ppm)	0.34	0.32	6	0-20	
Nickel	mg/L (ppm)	0.12	0.17	34 a	0-20	
Zinc	mg/L (ppm)	0.07	< 0.05	nm	0-20	
	Chromium Copper Nickel	Chromium mg/L (ppm) Copper mg/L (ppm) Nickel mg/L (ppm)	Analyte Units Result Chromium mg/L (ppm) 0.16 Copper mg/L (ppm) 0.34 Nickel mg/L (ppm) 0.12	Analyte Units Result Result Chromium mg/L (ppm) 0.16 0.18 Copper mg/L (ppm) 0.34 0.32 Nickel mg/L (ppm) 0.12 0.17	Analyte Reporting Units Sample Result Duplicate Result Percent Difference Chromium mg/L (ppm) 0.16 0.18 12 Copper mg/L (ppm) 0.34 0.32 6 Nickel mg/L (ppm) 0.12 0.17 34 a	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Laboratory Code: 202039-01 (Matrix Spike)

JOHNSON SIN	Reporting	Spike	Sample	% Recove	ry % Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	0.16	94	98	80-120	4
Copper	mg/L (ppm)	2	0.34	92	92	80-120	0
Nickel	mg/L (ppm)	4	0.12	93	94	80-120	1
Zinc	mg/L (ppm)	2	0.07	95	98	80-120	3

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recov	ery Acceptan	ce RPD
Analyte	Units	Level	LCS	LCSI) Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	108	107	80-120	1
Copper	mg/L (ppm)	2	104	104	80-120	0
Nickel	mg/L (ppm)	4	106	105	80-120	1
Zinc	mg/L (ppm)	2	107	107	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 28, 2002

DUPLICATE COPY

INVOICE #02ACU0228-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO#M67541 - Results of testing requested by Gerry Thompson for material submitted on February 21, 2002.

FEDERAL TAX ID #(b) (6)

202143 SA	MPLE CHAIN (OF CUSTODY		2/21/02 BTZ M
Send Report To GELAGO A. Thompson Company ALASKAN COPPER Works Address 628 S. HANGUL ST	PROJECT NAME	NO.	PO# MG754/	Page # of TURNAROUND TIME Standard (2 Weeks) RUSH Rush charges authorized by:
City, State, ZIP SEATTLE WA 98/34 Phone # 206-382-4309 Fax # 206-382-8779	REMARKS			SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions
		ANA	LYSES REQUEST	TED

										ANA	LYS	ES RE	QUES	TED			
Sample ID	Lab ID	Date Sampled		Sample Type	# of containers	. TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Cycle Not 2				N	otes
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE PRINT NAME COMPANY TIME DATE 10,56m F! BIM 4/21/02 11:10m Relinquished by Received by: FORMS\CHECKIN\COC.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 28, 2002

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 21, 2002 from your Metro Self Monitor, PO#M67541 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0228R.DOC